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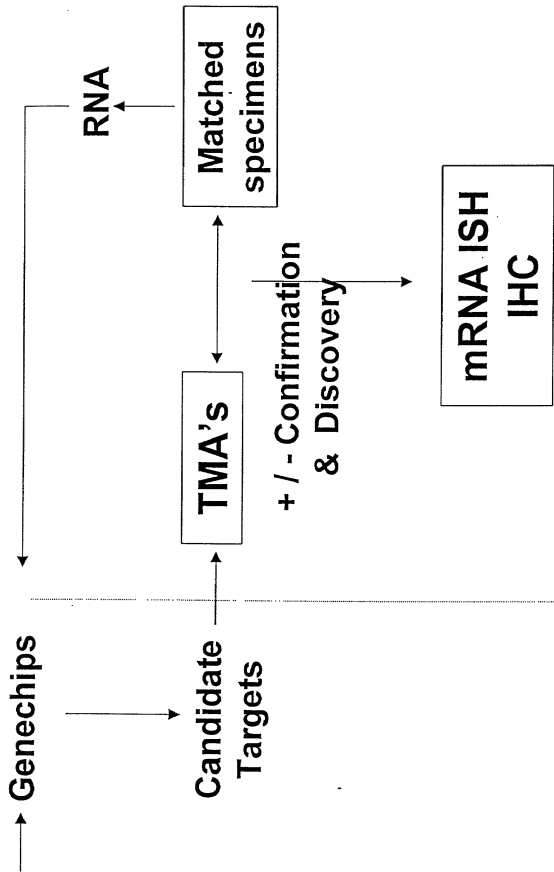


FIG. 1A

# Validation - phase I

- verification of initial ---
- screening results
- establish cellular -----
- localization & anatomic
- distribution

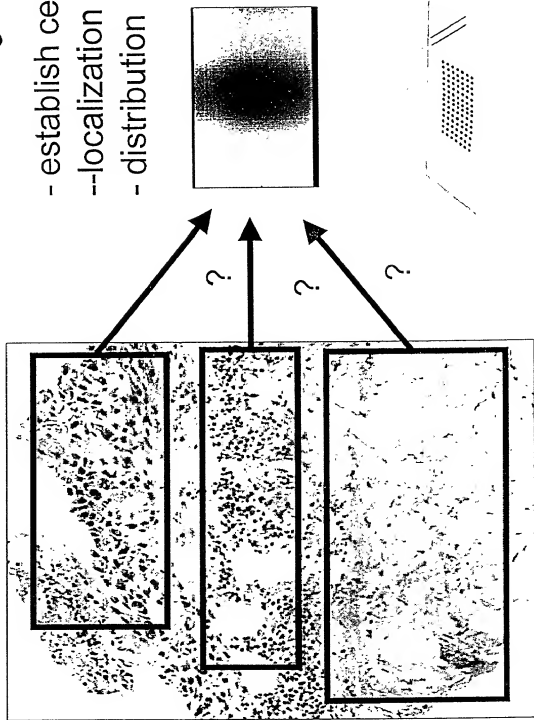


FIG. 1B



FIG. 2A



FIG. 2D

	1	2	3	4	5	6	7	8	
a	0	0	0	0	0	0	0	0	
b	0	0	0	0	0	0	0	0	
c	0	0	0	0	0	0	0	0	
d	0	0	0	0	0	0	0	0	A
e	0	0	0	0	0	0	0	0	
f	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	
a	0	0	0	0	0	0	0	0	B
b	0	0	0	0	0	0	0	0	
c	0	0	0	0	0	0	0	0	

FIG. 2B



Six tissue elements from a PathWork™ Breast Array BR50 stained with CK7 showing selective staining (400X). Tissue elements are 0.6mm in diameter and spaced 0.3mm apart.

FIG. 2C

**Sample Data Sheet Information (for one tissue element, located at A1a)**  
provided with every pathWorks™ Tissue MicroArray

Cat. #	BR50		
Lot #	07		
Coordinates:	A1a	Mitoses:	1
Organ:	Breast	PT:	1
Category:	Breast cancer, ductal	pN:	0
Sex:	F	LN pos	0
Age:	67	LN all	23
BRE Grade:	G2	Tumor dia.	15
Tubuli:	3	Surgery:	mastectomy
Polymorphy:	3		

FIG 2E

# Tissue MicroArrays

- Development of population databases
- High-throughput in situ analysis of DNA, RNA and protein
- Discovery of diagnostic and prognostic correlations
- Target prioritization

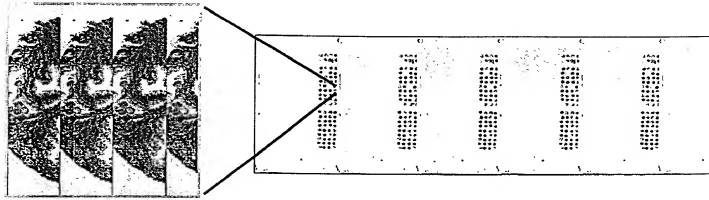


FIG. 3

# The Clinomics Biorepository

Clinomics Biorepository Application - (InfoSpecimenEntry - Form) 100260" 6299660

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## Specimen Entry Form

Pathology # Lookup Pathology # H-983-90

Patient Data | Diagnosis | History | Specimen Data

Collection Date	Age at Collection	Received Date	Specimen Type	Amount
6/19/1990	83	10/15/1999	Block	Block
Medication	Con. Medication	Evidence	Treatment	TMS Tagging
CMF	Lung	Biopsy	Chemotherapy	TINOMU
Chemotherapy	Chemo Date	Radiation Therapy	Radiation Date	Nodal Status
Yes	8/20/1990	Yes	7/15/1990	Positive
Primary Site	Tube Type	Surgical Resection		Yes
Breast (I)	Critical	Yes		

Sample Data

ClinicalID	Description	Location	Sample Type	Amount	Quotient
000002841		TPA, A, tubes	FFPE	Block	0
000007489	Breast cancer	TPA, A, tubes	S	100 mg/l	0
000007491	Breast cancer	TPA, B, bags	FFPE	100 Mg	0
000007492	Breast cancer	TPA, B, bags	FFPE	100 mg	0
000007493	Breast cancer	TPA, A, tubes	FFPE	100 mg	0
000007494	Breast cancer	TPA, A, tubes	FFPE	100 mg	0

Record: 11/1/1999 of 4771

Form View

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CLINOMICS



FIG. 4A

# Biorepository Database

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coordinates on array	histology	HR grade	tumor diameter	pT	pN	nodes examined	notes	prs	censor	months survival	age	homotherapy	chemotherapy	pepidermh
1	ductal	1	50	3	1	40		28	0	58	33			
1	micro	1	50	3	1	40		28	0	78	43	no	yes	no
2	ductal	2	60	3	2	10		6	0	29	54	yes	no	no
1	ductal	1	20	1	0	8		0	0	96	55	no	no	no
1	ductal	1	30	4	1	9		2	0	64	70	yes	no	no
1	ductal	1	30	4	1	14		8	0	43	44	no	yes	no
1	ductal	1	10	1	1	11		2	0	12	51			
3	ductal	3	22	2	1	16		3	0	107	64	yes	no	no
3	ductal	3	30	2	3	4		4	0	21	48			
3	ductal	3	3	2					0	28	49			
2	ductal	2	40	2	1	13		5	0	55	69			
1	ductal	1	40	2	2	12		9	0	73	44			
2	ductal	2	30	4	2	10		7	0	85	70			
3	ductal	3	30	4	0	14		0	0	80	79	no	no	no

Medication and treatment histories, with outcomes, and expression profiles

FIG. 4B

[illegible]